

# Xunhua Yuan

## List of Publications by Year in descending order

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43  
papers

839  
citations

471061

17  
h-index

476904

29  
g-index

43  
all docs

43  
docs citations

43  
times ranked

520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental assessment of precision and accuracy of radiostereometric analysis for the determination of polyethylene wear in a total hip replacement model. <i>Journal of Orthopaedic Research</i> , 2002, 20, 688-695.	1.2	130
2	Methods for determining the accuracy of radiostereometric analysis (RSA). <i>Acta Orthopaedica</i> , 2000, 71, 403-408.	1.4	76
3	Radiographic Methods for the Assessment of Polyethylene Wear After Total Hip Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2005, 87, 2323.	1.4	75
4	In Vitro Quantification of Wear in Tibial Inserts Using Microcomputed Tomography. <i>Clinical Orthopaedics and Related Research</i> , 2011, 469, 107-112.	0.7	44
5	Comparison of two digital radiostereometric analysis methods in the determination of femoral head penetration in a total hip replacement phantom. <i>Journal of Orthopaedic Research</i> , 2004, 22, 659-664.	1.2	43
6	The stability of three different cementless tibial components: A randomized radiostereometric study in 45 knee arthroplasty patients. <i>Acta Orthopaedica</i> , 1995, 66, 21-27.	1.4	38
7	Accuracy analysis for RSA: a computer simulation study on 3D marker reconstruction. <i>Journal of Biomechanics</i> , 2000, 33, 493-498.	0.9	36
8	Varus tibial alignment is associated with greater tibial baseplate migration at 10 years following total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1610-1617.	2.3	35
9	Radiostereometric analysis of distal radial fracture displacement during treatment: A randomized study comparing Norian SRS and external fixation in 23 patients. <i>Acta Orthopaedica</i> , 2001, 72, 57-61.	1.4	30
10	Contact Kinematic Differences Between Gap Balanced vs Measured Resection Techniques for Single Radius Posterior-Stabilized Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2017, 32, 1834-1838.	1.5	27
11	Clinical Accuracy of Imaging Techniques for Talar Neck Malunion. <i>Journal of Orthopaedic Trauma</i> , 2008, 22, 415-418.	0.7	24
12	Thirteen-year wear rate comparison of highly crosslinked and conventional polyethylene in total hip arthroplasty: long-term follow-up of a prospective randomized controlled trial. <i>Canadian Journal of Surgery</i> , 2017, 60, 212-216.	0.5	24
13	A Randomized Trial Comparing Acetabular Component Fixation of Two Porous Ingrowth Surfaces Using RSA. <i>Journal of Arthroplasty</i> , 2013, 28, 48-52.	1.5	23
14	Error propagation for relative motion determined from marker positions. <i>Journal of Biomechanics</i> , 1997, 30, 989-992.	0.9	22
15	Development of an RSA calibration system with improved accuracy and precision. <i>Journal of Biomechanics</i> , 2008, 41, 907-911.	0.9	22
16	Effect of Acetabular Position on Polyethylene Liner Wear Measured Using Simultaneous Biplanar Acquisition. <i>Journal of Arthroplasty</i> , 2017, 32, 1670-1674.	1.5	21
17	Change in Acetabular Cup Orientation From Supine to Standing Position and Its Effect on Wear of Highly Crosslinked Polyethylene. <i>Journal of Arthroplasty</i> , 2018, 33, 263-267.	1.5	18
18	Bony increased-offset reverse shoulder arthroplasty vs. metal augments in reverse shoulder arthroplasty: a prospective, randomized clinical trial with 2-year follow-up. <i>Journal of Shoulder and Elbow Surgery</i> , 2022, 31, 591-600.	1.2	16

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19	Wear particle diffusion and tissue differentiation in TKA implant fibrous interfaces. <i>Journal of Biomechanics</i> , 2000, 33, 1279-1286.	0.9	14
20	Contact Kinematics Correlates to Tibial Component Migration Following Single Radius Posterior Stabilized Knee Replacement. <i>Journal of Arthroplasty</i> , 2018, 33, 740-745.	1.5	13
21	Radiostereometric analysis using clinical radiographic views: Validation measuring total hip replacement wear. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1521-1528.	1.2	12
22	Measurement of the Forefoot with Roentgen Stereophotogrammetry in Hallux Valgus Surgery. <i>Foot and Ankle International</i> , 1995, 16, 271-276.	1.1	10
23	Effects of lamination on the strength of bone cement. <i>Acta Orthopaedica</i> , 1997, 68, 55-58.	1.4	10
24	Predictive accuracy of RSA migration thresholds for cemented total hip arthroplasty stem designs. <i>HIP International</i> , 2018, 28, 363-368.	0.9	9
25	Quantification of in vivo implant wear in total knee replacement from dynamic single plane radiography. <i>Physics in Medicine and Biology</i> , 2013, 58, 2751-2767.	1.6	8
26	Validation of radiostereometric analysis in six degrees of freedom for use with reverse total shoulder arthroplasty. <i>Journal of Biomechanics</i> , 2018, 68, 126-131.	0.9	8
27	Radiostereometric analysis of early anatomical changes following medial opening wedge high tibial osteotomy. <i>Knee</i> , 2015, 22, 41-46.	0.8	7
28	Are short press-fit stems comparable to standard-length cemented stems in reverse shoulder arthroplasty? A prospective, randomized clinical trial. <i>Journal of Shoulder and Elbow Surgery</i> , 2022, 31, 580-590.	1.2	7
29	Marker-based technique for visualizing radiolucent implant components in radiographic imaging. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2017-2022.	1.2	6
30	Radiostereometric Analysis Permits In Vivo Measurement of Very Small Levels of Wear in TKA. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 80-90.	0.7	6
31	Error analysis of marker-based object localization using a single-plane XR. <i>Medical Physics</i> , 2009, 36, 190-200.	1.6	5
32	Radiostereometric analysis using clinical radiographic views: Development of a universal calibration object. <i>Journal of Biomechanics</i> , 2018, 73, 238-242.	0.9	5
33	Investigation of imaging magnification in radiostereometric analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 92-95.	1.0	3
34	Radiostereometric analysis using clinical radiographic views: Validation with model-based radiostereometric analysis for the knee. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 759-767.	1.0	3
35	Resolution enhancement of computed radiography images using two orthogonal tilts. , 2012, , .		2
36	Measurement of joint kinematics using a conventional clinical single perspective flat-panel radiography system. <i>Medical Physics</i> , 2012, 39, 6090-6103.	1.6	2

#	ARTICLE	IF	CITATIONS
37	RADIOGRAPHIC METHODS FOR THE ASSESSMENT OF POLYETHYLENE WEAR AFTER TOTAL HIP ARTHROPLASTY. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2323-2334.	1.4	2
38	Quantification of mouse in vivo whole-body vibration amplitude from motion-blur using x-ray imaging. Physics in Medicine and Biology, 2015, 60, 6423-6439.	1.6	1
39	Validation of In Vivo Linear and Volumetric Wear Measurement for Reverse Total Shoulder Arthroplasty Using Model-Based Radiostereometric Analysis. Journal of Orthopaedic Research, 2019, 37, 1620-1627.	1.2	1
40	The Effects of Resection Technique on Implant Migration in Single Radius Posterior-Stabilized Total Knee Replacement. Journal of Knee Surgery, 2020, 33, 078-083.	0.9	1
41	Exploring RSA Ultimate Accuracy by Using Computer Synthetic Images. Lecture Notes in Computer Science, 2003, , 391-398.	1.0	0
42	Comparison of a digital flat-panel x-ray image intensifier and conventional film-screen system for radiostereometric analysis (RSA). , 2004, 5368, 914.		0
43	Additively manufactured implant components for imaging validation studies. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 690-698.	1.0	0